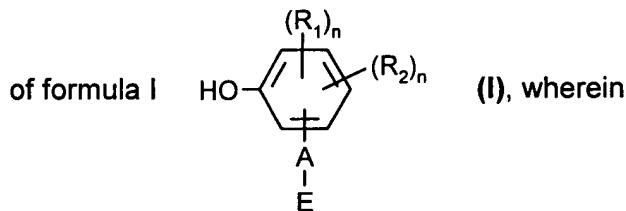


IN THE CLAIMS

Kindly amend the claims as follows.

1. (currently amended): A process for stabilising and at the same time phase compatibilising ~~plastics~~ or plastic compositions comprising at least two different polymers by incorporating polymeric compounds obtainable by reacting a compound selected from the group consisting of the sterically hindered phenols, ~~sterically hindered amines, lactones, sulfides, phosphites, benzotriazoles, benzophenones and 2-(2-hydroxyphenyl)-1,3,5-triazines~~, which compounds contain at least one reactive group, with a ~~compatibilisator~~ compatibiliser compound which is a polymer containing acid groups, acid anhydride groups, ester groups, epoxy groups or alcohol groups or which compatibiliser compound is a copolymer or terpolymer of ethylene, propylene, vinyl acetate or styrene with acrylic acid.

2. (original): A process according to claim 1, wherein the sterically hindered phenols are compounds



R_1 and R_2 are each independently of the other hydrogen, C_1 - C_{25} alkyl, phenyl- C_1 - C_3 alkyl which is unsubstituted or substituted once or several times at the aromatic ring by OH or/and C_1 - C_4 alkyl, unsubstituted or C_1 - C_4 alkyl-substituted C_5 - C_{12} cycloalkyl, or phenyl;

n is 1, 2 or 3;

E is OH, SH, NHR_3 , SO_3H , $COOH$, $-CH=CH_2$, $-(CH_2)_m-CH(O)-CH_2$ or $-\overset{O}{P}(R_4)_2(OH)$;

m is 0 or 1;

R_3 is hydrogen or C_1 - C_9 alkyl;

R_4 is C_1 - C_{12} alkyl, or phenyl which is unsubstituted or substituted by one or several C_1 - C_4 alkyl, halogen or/and C_1 - C_{18} alkoxy;

A if E is OH, SH or -CH=CH₂, is -C_xH_{2x}- , -CH₂-S-CH₂CH₂- ,
 $-C_qH_{2q}-(CO)-O-C_pH_{2p}-$, $-C_qH_{2q}-(CO)-NH-C_pH_{2p}-$ or $-C_qH_{2q}-(CO)-O-C_pH_{2p}-S-C_qH_{2q}-$;
 x is a number from 0 to 8;
 p is a number from 2 to 8;
 q is a number from 0 to 3;
 R₁ and n are as defined above; or

A if E is -NHR₃, is -C_xH_{2x}- or -C_qH_{2q}-(CO)-NH-C_pH_{2p}- , wherein x, p and q have the meanings cited above; or

A if E is COOH or SO₃H, is -C_xH_{2x}- , -CH₂-S-CH₂- or -CH₂-S-CH₂CH₂- , wherein x has the meaning cited above; or

A if E is $-(CH_2)_m-CH(O)-CH_2$, is a direct bond, -C_qH_{2q}-(CO)_m-O-CH₂- or -C_xH_{2x}-S-CH₂- , wherein q, m, x, R₁ and R₂ are as defined above;

A if E is $-\overset{\overset{O}{\parallel}}{P}-R_4$, is -CH₂- .

3-8. (cancelled).

9. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a polymer with acrylic acid (AA) function, glycidyl methacrylate (GMA) function, methacrylic acid (MAA) function, maleic anhydride (MAH) function or vinyl alcohol (VA) function.

10. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a copolymer consisting of which is polyethyleneethylene/-acrylic acid (PE-AA),
~~polyethylene~~ethylene /glycidyl methacrylate (PE-GMA),
~~polyethylene~~ethylene/-methacrylic acid (PE-MAA) or
~~polyethylene~~ethylene/-maleic anhydride (PE-MAH) or
 a terpolymer of ~~polyethylene~~ethylene and vinyl acetate with acrylic acid or
 a terpolymer of ~~polyethylene~~ethylene and acrylates with acrylic acid.

11. (curr ntly amend d): A process according to claim 81, wherein the compatibiliser compound is a grafted polyethylene or polypropylene copolymer selected from the group consisting of maleic

anhydride grafted to polyethylene vinyl acetate (MAH-g-PE-vinyl acetate), maleic anhydride grafted to low density polyethylene (MAH-g-LDPE), maleic anhydride grafted to high density polyethylene (MAH-g-HDPE), maleic anhydride grafted to linear low density polyethylene (MAH-g-LLDPE), acrylic acid grafted to polypropylene (AA-g-PP), glycidyl methacrylate grafted to polypropylene (GMA-g-PP), maleic anhydride grafted to polypropylene (MAH-g-PP), maleic anhydride grafted to ethylene/propylene terpolymer (MAH-g-EPDM), maleic anhydride grafted to ethylene/propylene rubber (MAH-g-EPM) and maleic anhydride grafted to polyethylene/polypropylene copolymer (MAH-g-PE/PP).

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12. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a grafted styrene co- or terpolymer selected from the group consisting of styrene/acrylonitrile grafted with maleic anhydride (SAN-g-MAH), styrene/maleic anhydride/methyl methacrylate, styrene/butadiene/styrene block copolymer grafted with maleic anhydride (SBS-g-MAH), styrene/ethylene/propylene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH), styrene/ethylene/butadiene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH) and acrylic acid/polyethylene/polystyrene terpolymer (AA-PE-PS-terpolymer).

13. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a vinyl alcohol copolymer.

14. (cancelled).

15. (original): A process according to claim 1, wherein the polymers to be stabilised are recycled material.

16-17. (cancelled).